

Result No.	Score	Query Match	Length	DB ID	Description
1	1182.6	98.5	1201	6 BD015201	BD015201 TLisa cel AR380482 Sequence
2	1182.6	98.5	1204	6 AR380482	AX697951 Sequence
3	1182.6	98.5	1204	6 AX697951	AX818155 Sequence
4	1182.6	98.5	1204	6 AX818155	M63928 Homo sapien
5	1182.6	98.5	1204	8 HUMCD27A	BC012160 Homo sapien
6	1182.6	98.5	1323	8 BC012160	CQ71686 Sequence
7	1181	98.4	1204	6 CQ71686	CQ869620 Sequence
8	1181	98.4	1300	6 CS119000	CS119000 Sequence
9	1181	98.4	1323	6 CS119000	CS119692 Sequence
10	1181	98.4	1323	6 CS119692	AY890880 Synthetic
11	779.4	65.0	783	11 AY890880	AX778265 Sequence
12	505.6	42.1	524	6 AX778265	L24495 Mus musculus
13	451.8	37.6	1585	9 MUSCD2TA	BC05844 Rattus norvegicus
14	435.2	36.3	1602	9 AC006064	AC006064 Homo sapiens
15	426	35.5	172571	8 AY54961	AY54961 Homo sapiens
16	424.4	35.4	10529	8 AY50961	AY50961 Homo sapiens
17	424.4	35.4	26815	6 CQ869619	CQ869619 Sequence
c 18	422.8	35.2	140026	8 AC005840	AC005840 Homo sapiens

ALIGNMENTS

Title:	US-09-836-544C-28	Scoring table:	IDENTITY_NUC Gapext 1.0	Perfect score:	1200	Sequence:	1 9gggtcaaaagaaggacag.....aaataaagtgcacatgtacc 1200
Searched:	5883141 seqs, 28421725653 residues	Total number of hits satisfying chosen parameters:	11766282	Minimum DB seq length:	0	Maximum DB seq length:	20000000000
Post-processing:	Minimum Match 0%	Maximum Match 100%	Listing first 45 summaries	Post-processing:	Minimum Match 0%	Maximum Match 100%	Listing first 45 summaries
Database :	GenBank	GenBank:	*	RESULT 1	BD015201	BD015201	1201 bp DNA linear PAT-27-AUG-2002
		1:	gb_ba:*	LOCUS	TLisa	cell surface antigen and CD27 utilization thereof.	
		2:	gb_in:*	DEFINITION			
		3:	gb_env:*	ACCESSION	BD015201		
		4:	gb_cm:*	VERSION	BD015201.1	GI:22556008	
		5:	gb_ov:*	KEYWORDS	JP 2001157592-A/19.		
		6:	gb_Pat:*	SOURCE	Homo sapiens (human)		
		7:	gb_Ph:*	ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Homo.		
		8:	gb_Dr:*	REFERENCE	1 (bases 1 to 1201)		
		9:	gb_ro:*	AUTHORS	Seed,B., Aruffo,A. and Amiot,M.		
		10:	gb_sts:*	TITLE	TLisa cell surface antigen and CD27 utilization thereof		
		11:	gb_sy:*	PATENT	JP 2001157592-A 19 12-JUN-2001;		
		12:	gb_un:*	JOURNAL	THE GENERAL HOSPITAL CORP		
		13:	gb_vl:*	COMMENT	OS Homo sapiens (human)		
		14:	gb_htg:*	KEY	PN JP 2001157592-A/19		
		15:	gb_Pl:*	PD 12-JUN-2001			
				PP 04-OCT-2000	JP 2000305557		
				PR 13-JUL-1990	US 553159		
				PI BRIAN SEED,ALEJANDRO ARUFFO,MARTIN AMIOT			
				PC C12N15/09 C07K14/72;G01N33/33,C12N15/00			
				CC TLisa cell surface antigen and CD27 utilization thereof			
				CC			
				PH	Location/Qualifiers		
				FT	(101). .(880).		
				FEATURES	Location/Qualifiers		
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				ORIGIN			

Pre. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Run on:	December 7, 2005, 00:51:17 ; Search time 6317 Seconds (without alignments)
Title:	OM nucleic - nucleic search, using sw mode!
Perfect score:	10738.186 Million cell updates/sec
Sequence:	1 9gggtcaaaagaaggacag.....aaataaagtgcacatgtacc 1200
Scoring table:	IDENTITY_NUC Gapext 1.0
Post-processing:	Minimum Match 0%
Post-processing:	Maximum Match 100%
Post-processing:	Listing first 45 summaries

REF ID: BD015201 (bases 1 to 1201)

Seed,B., Aruffo,A. and Amiot,M. TLisa cell surface antigen and CD27 utilization thereof. JP 2001157592-A/19. THE GENERAL HOSPITAL CORP

Patent: JP 2001157592-A 19 12-JUN-2001; THE GENERAL HOSPITAL CORP

OS Homo sapiens (human) PN JP 2001157592-A/19

PD 12-JUN-2001 PP 04-OCT-2000 JP 2000305557

PR 13-JUL-1990 US 553159 PI BRIAN SEED,ALEJANDRO ARUFFO,MARTIN AMIOT

PC C12N15/09 C07K14/72;G01N33/33,C12N15/00 CC TLisa cell surface antigen and CD27 utilization thereof

CC PH FT Location/Qualifiers

1..1201 Location/Qualifiers /organism="Homo sapiens"

/mol_type="Genomic DNA" /db_xref="taxon.9606"

ORIGIN Query Match 98.5%; Score 1182.6; DB 6; Length 1201; Best Local Similarity 99.6%; Pred. No. 1..e-27.1; Matches 1196; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

LOCUS	HUMCD27A	1204 bp	mRNA	linear	PRI 31-DEC-1994
DEFINITION	Homo sapiens T cell activation antigen (CD27) mRNA, complete cds.				
ACCESSION	M63928				
VERSION	1				
KEYWORDS	GT:180084				
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
REFERENCE	Camerini,D., Walz,G., Loenen,W.A., Borst,J. and Seed,B.				
AUTHORS					
TITLE	The T cell activation antigen CD27 is a member of the nerve growth factor/tumor necrosis factor receptor gene family				
JOURNAL	J. Immunol. 147 (9), 3165-3169 (1991)				
PUBMED	1655907				
COMMENT	Original source text: Homo sapiens cDNA to mRNA.				
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source	1..1204				
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CDS	101..883				
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ORIGIN					
	Query Match Score 1102.6; DB 8; Length 1204;				
	Best Local Similarity 99.6%; Pred. No. 1..6..-271;				
	Matches 1196; Conservative 0; Mismatches 4; Indels 1; Gaps 1;				
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Db	1 GGGGTCAAGAAAGAACCCGCCCCACCTGGAGGTGCTTAACTCAGGCCAGAT	60			
Qy	61 CAGGAACTGGCACAGAAAGGAGCGCCGGCACAGGAACTGCAACGCCACATG	120			
Db	61 CAGGAACTGGCACAGAAAGGAGCGCCGGCACAGGAACTGCAACGCCACATG	120			
Qy	121 GTGGCTGTGCTTCTGGGACCCCTGGGACCCCTGGTGGGGCTCTAGTACTCG	180			
Db	121 GTGGCTGTGCTTCTGGGACCCCTGGGACCCCTGGTGGGGCTCTAGTACTCG	180			
Qy	181 CCCAGAGGGCACTACTGGCTTCAGGAAGCTGCTCCAGATGTGAGCCAGAC	240			
Db	181 CCCAGAGGGCACTACTGGCTTCAGGAAGCTGCTCCAGATGTGAGCCAGAC	240			
Qy	241 ATTCCCTCGTGAAGGACTCTGTCACCATGAAAGCTGCTCCAGATGTGAGCCAGAC	300			
Db	241 ATTCCCTCGTGAAGGACTCTGTCACCATGAAAGCTGCTCCAGATGTGAGCCAGAC	300			
Qy	301 GGGGTCTCCCTCTCTGCAACCAACCCGGCCCACTGTGAGGTGTGGCACTG	360			
Db	301 GGGGTCTCCCTCTCTGCAACCAACCCGGCCCACTGTGAGGTGTGGCACTG	360			
Qy	361 TAATCTGTGTTCTGTCAGTGCACCACTGTCACCATGTCAGTGTGAGGTGTG	420			
Db	361 TAATCTGTGTTCTGTCAGTGCACCACTGTCACCATGTCAGTGTGAGGTGTG	420			
Qy	421 CAATGGCTGCACTGCACTGGCACAGGAGTCACCCGAGTGATCTCTCCAAACCCCTC	480			
Db	421 CAATGGCTGCACTGCACTGGCACAGGAGTCACCCGAGTGATCTCTCCAAACCCCTC	480			

Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S., Prange, C., Raha, S.S., Loqueline, N.A., Peters, G.J., Abramson, P.D., Murray, S.J., Bosak, S.A., McEwan, P.J., McKernan, K.J., Malek, J.A., Gunnarathre, P.H., Richards, S., Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W., Villalon, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Baehey, J.J., Helton, E., Kettman, M., Madan, A., Rodriguez, S., Sanchez, A., Whiting, M., Madan, A., Rodriguez, S., Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butherford, Y.S., Kiryzynski, M.I., Skalka, U., Smalius, D.E., Schnarch, A., Schein, J.E., Jones, S.J., and Marra, M.A.	ORIGIN	BCACRNQWQCDKECTEDPLNPNTLARSQALSPPHPOPTHLPVSEMLEARTAGHM SNKGSFPRQFLPARTLSLTHPQRSLSDFRLYIIFSGMFLVFTLAGFLHQRRKV
Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences	REBUTTER	
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)	JOURNAL	
12477932	PUBMED	2 (bases 1 to 1323)
Strausberg, R.	AUTHORS	
Title	TITLE	
Submitted (10-AUG-2001) National Institutes of Health, Mammalian Gene Collection (MGCC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA	JOURNAL	
NIH-MGCC Project URL: http://mgcc.nci.nih.gov	COMMENT	
Contact: MGCC help desk Email: cgabbs@mail.nih.gov	REMARK	
Tissue Procurement: Louis Strandt	COMMENT	
CDNA Library Preparation: Rubin Laboratory	COMMENT	
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNL)	COMMENT	
DNA Sequencing by: Genome Sequence Centre, BC Cancer Agency, Vancouver, BC, Canada	COMMENT	
Steve Jones, Sarah Barber, Mabel Brown-John, Yaron Butterfield, Andy Chan, Steve S. Chand, William Chow, Alison Cloutier, Ruth Featherstone, Malachi Griffith, Obi Griffin, Nancy Liao, Kim MacDonald, Amara Masson, Mike R. Mayo, Josh Moran, Ryan Morin, Teika Olson, Diana Palmquist, Anna Petresu, Anna Liisa Prahubu, Ravaneh Saedi, JR Santos, Angelique Scheerch, Ursula Skalska, Duane Smalius, Jeff Stott, Miranda Tsai, George Yang, Jacqueline Schein, Asim Siddiqui, Rob Holt, Marco Marra.	COMMENT	
Clone distribution: MGCC clone distribution information can be found through the I.M.A.G.E. Consortium/ILNL at: http://image.ilnl.gov	FEATURES	
Series: IRBL Plate: 29 Row: h Column: 11	source	This clone was selected for full length sequencing because it passed the following selection criteria: Similarity but not identity to protein.
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198 .. 980		198 .. 980
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Qy	961	TGGAGGCCAACACTGCACTTCCATCTTGTCAGGGCCCTTCTCTGTACCGTGACA	1020	Db	301	GGGGGCTCCCTCTCTCTGACCAACCGGCCAACCTGTCAGTGAGCTGCACTG	360
Qy	1058	TGGAGGCCAACACTGCACTTCCATCTTGTCAGGGCCCTTCTCTGTACCGTGACA	1117	Qy	361	TAACCTGGTCTTCTGTTGCAACTGCCACCATCTACTGCAATGCTGAGTGTGCTG	420
Db	1021	GAGTCGCCTTTCGAGACTGCACTGGAGGACGAGCAAAATATGATGAGGTGAGCTGGAA	1080	Db	361	TAACCTGGTCTTCTGTTGCAACTGCCACCATCTACTGCAATGCTGAGTGTGCTG	420
Qy	1118	GAGTCGCCTTTCGAGACTGCACTGGAGGACGAGCAAAATATGATGAGGTGAGCTGGAA	1177	Qy	421	CAATGGTGGAGTGGAGTGGAGCTGGATCTGATCCTGCAACCCCTTC	480
Db	1081	GCAGGAGGCCAGGCACTGGAGCTGGGGGGCTCTGGTTGTAGGCA	1139	Db	421	CAATGGTGGAGTGGAGTGGAGCTGGATCTGATCCTGCAACCCCTTC	480
Qy	1178	GCAGGAGGCCAGGCACTGGAGCTGGGGGGCTCTGGTTGTAGGAA	1237	Qy	481	GCTGACCGCTGGCTGGCTGGCTCAAGGGCTGAGGCAACCCACCCACTTACCTTA	540
Db	1140	CACCTTCCTGCGAAAGACCCACATGTCTAACAGGGCCAAATAAAGTGACAGATGAC	1199	Db	481	GCTGACCGCTGGCTGGCTCAAGGGCTGAGGCAACCCACCCACTTACCTTA	540
Qy	1238	CACCTTCCTGCGAAAGACCCACATGTCTAACAGGGCCAAATAAAGTGACAGATGAC	1297	Qy	541	TGTCTAGTGAGATGCTGGAGGGCCAGGACATGGAGACTCTGGCTGACTTCAG	600
Db	1200	C 1200		Qy	601	GCAGCTCCCTGGGGGACTCTGGCTGGAGCTGGCTGGAGCTGGCT	660
Db	1298	C 1298		Qy	601	GCAGCTCCCTGGGGGACTCTGGCTGGAGCTGGCTGGAGCTGGCT	660
RESULT	7			Qy	661	CGATTTTATTGCTCATCTTGTGATCTCTCTGAAATGTTCTGTCACCCCTGGCCGG	720
LOCUS	CQ721686	CQ721686	1204 bp	DNA	661	CGATTTTATTGCTCATCTTGTGATCTCTCTGAAATGTTCTGTCACCCCTGGCCGG	720
DEFINITION	Sequence 7620 From Patent WO20068579.			Qy	721	GGCCCGTTCTTCATCAACGGGAAATATGATCAAACAGAGGAAGTCTCTGTGCA	780
ACCESSION	CQ721686			Db	721	GGCCCGTTCTTCATCAACGGGAAATATGATCAAACAGAGGAAGTCTCTGTGCA	780
VERSION	CQ721686.1	GI:412282543		Qy	781	GCCTGGAGGCGCTTGTGTTAGCTTCCCAAGGGAGGAGGAGGAGGAGGAGGAGG	840
KEYWORDS				Db	781	GCCTGGAGGCGCTTGTGTTAGCTTCCCAAGGGAGGAGGAGGAGGAGGAGGAGG	840
SOURCE	Homo sapiens (human)			Qy	841	CCAGGGGGATTAACCGAAAACCGGAGGCTGCCCTGAGCCAGCACCTGGTAG	900
ORGANISM	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Buarchontoglires; Primates; Catarrhini; Hominoidea; Homo.			Db	841	CCAGGGGGATTAACCGAAAACCGGAGGCTGCCCTGAGCCAGCACCTGGTAG	900
REFERENCE				Qy	901	CTGCACTTACAGCCCTGGCTCCACCCCAACCCGGCCATCAAGGAGAGTGAGACC	960
AUTHORS	Venter, C.J., Adams, M.C., Li, P.W. and Myers, E.W.			Db	901	CTGCACTTACAGCCCTGGCTCCACCCCAACCCGGCCATCAAGGAGAGTGAGACC	960
TITLE	Kits, such as nucleic acid arrays, comprising a majority of human exons or transcripts, for detecting expression and other uses thereof			Qy	961	TGGCACCCACAACTGAGTCCCATCTGGCCCTTCTGTTACAGTGAGACA	1020
VERSION	Patent: WO 02068579-A 7620 06-SEP-2002;			Db	961	TGGCACCCACAACTGAGTCCCATCTGGCCCTTCTGTTACAGTGAGACA	1020
JOURNAL	PE Corporation (NY) (US)			Qy	1021	CTGCACTTACAGCCCTGGCTCCACCCCAACCCGGCCATCAAGGAGAGTGAGACC	1080
FEATURES	source			Db	1021	CTGCACTTACAGCCCTGGCTCCACCCCAACCCGGCCATCAAGGAGAGTGAGACC	1080
LOCATION/QUALIFIERS	1. .1204 1. .1204 /organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606"			Qy	1021	CTGCACTTACAGCCCTGGCTCCACCCCAACCCGGCCATCAAGGAGAGTGAGACC	1080
ORIGIN				Db	1021	CTGCACTTACAGCCCTGGCTCCACCCCAACCCGGCCATCAAGGAGAGTGAGACC	1080
				Qy	1081	GCAGGAGCCACCCAGCTGGCTGCGCGCGCTGCTGAGGAGGAGGAGGAGGAGG	1140
				Db	1081	GCAGGAGCCACCCAGCTGGCTGCGCGCGCTGCTGAGGAGGAGGAGGAGGAGG	1140
				Qy	1140	CACTTCTGCTGCGAAAGACCCACATGCTACAGACGGCCAATAATAAGTGACAGATGAC	1199
				Db	1141	CACTTCTGCTGCGAAAGACCCACATGCTACAGACGGCCAATAATAAGTGACAGATGAC	1290
				Qy	1200	C 1200	
				Db	1201	C 1201	
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				ACCESSION			
				CQ869620			
				VERSION			
				CQ869620.1			
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				Furnarius			
				Murazoa			
				Chordata; Craniata; Veribraria; Euteleostomi;			

Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominoidea; Homo.	Qy	841	CCAGGAGGATTACCGAAAAGGGAGCCTGAGGCCACCCCTGTGGGTAG 	900
REFERENCE	Db	938	CCAGGAGGATTACCGAAAAGGGAGCCTGAGGCCACCCCTGTGGGTAG 	997
AUTHORS	Db	901	CTGCACATACAGCCCTGGCTTCACCCCCAACGGGACTCTGGCTCCCTGAGGCCACCTGGGTAG 	960
TITLE	Db	998	CTGCACATACAGCCCTGGCTTCACCCCCAACGGGACCATCCAGGAGTAG 	105
JOURNAL	Db	961	TGGCAACCACACTGAGTCCCATTCTGTAGGGCCCTTCTGTGACCTGGACA 	1021
FEATURES	Db	1058	TGGCAACCACACTGAGTCCCATTCTGTAGGGCCCTTCTGTGACCTGGACA 	1111
SOURCE	Db	1021	GAGTGCTCTTTCGAACTGGAGCTGGAGGAGCTGGAGTGGAA 	1081
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Query Match 98.4%; Score 1181; DB 6; Length 1300;	Qy	1081	GCAGAGGCCAGCCAGCTGCGCG-TGCCAGAGGGGGGCTCTGAGTGGAA 	113
Best Local Similarity 99.5%; Pred. No. 3.8e-271; Gaps 1;	Db	1178	GCAGAGGCCAGCCAGCTGCGCG-TGCCAGAGGGGGCTCTGAGTGGAA 	123
Matches 1195; Conservative 0; Mismatches 5; Indels 1;	Qy	1140	CACTCTCTGTGAGAAGCCACATGCTAACAGAGGGCAAATAAAGTGAAGTGA 	119
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RESULT 9	CS119000	1323 bp	DNA	PAT 08-JUL-2004
LOCUS	CS119000	Sequence 1047 from Patent WO2005054508.		
DEFINITION	CS119000			
ACCESSION	CS119000.1			
VERSION	GI:70666946			
KEYWORDS				
SOURCE				
ORGANISM				
synthetic construct				
other sequences; artificial sequences.				
REFERENCE 1	Bertucci, P., Houlgatte, R., Birnbaum, D. and Debono, S.			
AUTHORS	Gene expression profiling of colon cancer by dna microarrays and			
TITLE	correlation with survival and histoclinical parameters			
JOURNAL	Patent: WO 2005050508-A 10/07 16-JUN-2005; Ipogen (FR); Institut Paoli-Calmettes, Ipc (FR); Institut National de la Sante et de la Recherche Medicale (INSERM) (FR)			
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Best Local Similarity 99.5%; Pred. No. 3.8e-271; Gaps 1;	Db	98	GGGGTCAAAGAAAGAGACAGGGCCAGCTGGGCTAACCTGGCTAACAGGGCAGGGCAT 	157
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1..1323	Db	158	CAGCACTGGGAAAGAGACAGGGCCAGCTGGGCTAACAGGGCAGGGCAT 	217
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Best Local Similarity 99.5%; Pred. No. 3.8e-271; Gaps 1;	Db	218	GTGGCTGTGGTTCTGGGACCTCTGGCTACTCTGGCCACAGGGCTG 	277

Qy	369	GTCCTCTCTTCCGAACCTCACCATCACTGCCAATGCTGAGTCGCTGGCAATGGCT	428	Schnurch,A., Schein,J.E., Jones,S.J. and Marra,M.A.
Db	416	GTTCTCTTCCGAACCTCACCATCACTGCCAATGCTGAGTCGCTGGCAATGGCT	505	Mammalian Gene Collection Program Team Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
Qy	429	GCGATGCGGGACAAGGAGTGCACCGAGTGATCCATGCCAATGCTGAGTCGCTGGC	488	Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
Db	506	GCGATGCGGGACCGAGATCACAGGTGACCCCTCTAAACCTGACTGACCA	565	2 (bases 1 to 1602)
Qy	409	CTCGTCGCTCTAGGCCCTAGGCCAACCTTACCTTATGTCAGTG	548	NIH MGC Project
Db	566	GACAGCCATCTGACCCGAGCCACCCACCTTACCTCATGGCACAG	625	Direct Submission Submitted (06 MAY-2005) National Institutes of Health, Mammalian Gene Collection (MGC), Bethesda, MD 20892-2590, USA
Qy	549	AGATGCTGGAGGCCAGGAGCTGGCAATGCGAGCTGGCTGACTTCAGGCA	608	NIH-MGC Project URL: http://mgc.ncbi.nlm.nih.gov
Db	626	AGAGC-----CATCTGGCTCTACA-----CAGCGAGTTC	658	Contact: MGC help desk Email: cgsbps-r@mail.nih.gov
Qy	609	CTGCCCGGACTCTCTTACCCACTGGCCAACCCAAAGATCCCTGTGCAAGCTCGGATTAA	668	Tissue Procurement: Drs. Josef Lazar & Howard Jacob, Medical College of Wisconsin
Db	659	CCAACTCTGCTGTATACCCAGCGGTATCCCTAGACCCCTGTGCA	718	CDNA Library Preparation: Open Biosystems CDNA Library Arrayed by: The I.M.A.G.E. Consortium (L1NL) DNA Sequencing by: Sequencing Group at the Stanford Human Genome Center, Stanford University School of Medicine, Stanford, CA 94305
Qy	669	TTCGATCCTTGATCTCTCTGAAATGTTCTCTGTTTACCCCTGGCGGGCCGT	728	Web site: http://www-sbgc.stanford.edu
Db	719	TCCGGATCTTGTGACCTTCTCCAGATGTTCTTCTCTCTGGTAATCTTG	778	Contact: (Dickson, Mark) mcd@paxil.stanford.edu Dickson, M., Schmutz, J., Grimmwood, J., Rodriguez, A., and Myers, R. M.
Qy	729	TCTCCATACGAGGAAATAAGATAAACAAAGGAAAGTCTCTGGAGGCCCTGCAG	788	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/L1NL at: http://image.lnl.gov
Db	779	TCTTCATAGAGAACCCAGGGCA---AATGAGACCCAGACAGTCGCTGAG	835	Series: IRAP Plate: 227 Row: C Column: 6 This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORF analysis. Similarity but not identity to protein.
Qy	789	AGCCCTGTGTTACAGCTGCCAGGGAGGGCAACCATCCATCCAGGAGG	848	1..1602 Location/Qualifiers
Db	836	AGCCTTGTCTTACAGTGGCCAGGGAGGGCAATCCATCCATCCAGGAGG	895	/organism="Rattus norvegicus" /mol_type="mRNA" /db_xref="taxon:10116" /clone_id="NCI:112688 IMAGE:7389613" /issue_type="NID_MGC_251" /clone_id="DH10B" /lab_host="DH10B" /note="Vector: pExpressI"
Qy	849	ATTACCGAAACCGAGCTGCCCTGAGCCACCTGGGGTAGCTGCACCA	908	1..1602 /db_xref="GenID:500318" /gene="MGC112688" /genbank="MGC112688" /cds
Db	836	ACATACGGAAACCGAGCTGCCCTGAGCCACCTGGGGTAGCTGCACCA	955	/codon_start=1 /product="hypothetical protein LOC500318" /protein_id="AAH95544.1" /db_xref="GI:3310137" /translation="MAWPFLWLMGLTGLLATPAPNCPDHYWAGLCCOMCG PGTFPLVKGHDODRAAAOCPCPCTPSDYHTRPHCSCRHCNSGFLRNCTVANA ECTCSKGKQGCRDQEBCTECPDLNPLALTSEASQPLPPTHLYATEKPSMPFQRQ LPDSITVSYSLPSQPLCSDCIRYFTVPSMLVYVLGTLFFHORRNQPNEDSQAV PEELCPYSPSPREEGSVLTDQEDYRKPEASYP"
Qy	909	CAGCCCTGCCCTCACCCACCCC	933	ORIGIN
Db	956	ACGAGGGGCCATCCACAGAGACCTC	980	RESULT 14
LOCUS	BC095844	1602 bp	mRNA	ROD 25-JUL-2005
DEFINITION	Rattus norvegicus similar to CD27 antigen precursor - mouse, mRNA			
ACCESSION	BC095844	(CDNA clone MGC:112688 IMAGE:7389613)		Best Local Similarity 73.4%; Pred. No. 4.6e-93;
VERSION	BC095844.1	complete cds.		Matches 611; Conservative 0; Mismatches 188; Indels 33; Caps 3;
SOURCE				
ORGANISM	Rattus norvegicus (Norway rat)			
ECOLOGY	Bukaria, Metazoa; Chordata; Vertebrata; Euteleostomi;			
MATERIALS	Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;			
SCIPIO	Sciurognathus; Muridae; Murinae; Rattus.			
(bases 1 to 1602)				
STRABERS, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G., Schuler, G.D., Klausner, R.D., Colling, P.S., Wagner, L., Shemesh, C.M., Bhat, N.K., Aartsma, S.F., Zeeberg, B., Buettow, K.H., Scheffer, C.F., Bhat, N.K., Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F., Diarchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L., Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L., Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S., Carninci, P., Prange, C., Raha, S. S., Loqueland, N.A., Peters, G.J., Abramson, R.D., Mulahy, S.J., Bosak, S.A., McInnis, P.J., McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S., Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W., Villalon, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Fahay, J., Helton, E., Ketteman, M., Madan, A., Rodriguez, S., Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y., Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, R.D., Dickson, M.C., Rodriguez, A.C., Grimmwood, J., Schmutz, J., Myers, R. M., Butterfield, Y. S., Krzywinski, M.I., Skalska, U., Smailus, D.E.,				
REFERENCE				
AUTHORS				
Qy	69	GGGCAGAGAAAGGCCGCGGCGGAGCATGGCAGGCCACATGCCGAGCTGGCTGT	128	Query Match Score 435.2; DB 9; Length 1602;
Db	32	GGGTCTAGAGAGCTCCCTGAGGGAGCCATGCCACCCCTCTACTGGCTCT	91	Best Local Similarity 73.4%; Pred. No. 4.6e-93;
Qy	129	GGTTCTGGACCCGCTGAGGGCTCTAGCTAACGCCAGAGCTGCCAGAG	188	Matches 611; Conservative 0; Mismatches 188; Indels 33; Caps 3;
Db	92	GCATGGGGACCTCTGGCTGGCTAGCCAGGACATTCCTCG	151	
Qy	189	GGCAGCTACTGGCTCACGGAAAGCTGCTGAGCCAGGACATTCCTCG	248	

Copyright (c) 1993 - 2005	GenCore version 5.1.6	CompuGen Ltd.
nucleic - nucleic search, using Bw model		
on:	December 7, 2005, 00:47:12 ; Search time 810 Seconds	
	(without alignments)	
	98781-619 Million cell updates/sec	
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	Gapop 10.0 , Gapext 1.0	
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maximum DB seq length:	2000000000	
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Aai85846	Human pol	
Adf79866	Leukaemia	
Abq88207	Human oct	
Abd32558	Human can	
Abd32557	Mouse can	
Abd32557	Mouse can	
Adu12119	Solid tum	
Aai15981	Probe #59	
Aba58384	Human fee	
Aai138019	Probe #67	
Aba27495	Probe #59	
Aba32170	Human bon	
Aak06489	Human bra	
Abs31867	Human liv	
Abs60937	Human gen	
Aai25198	Probe #15	
Aba70980	Human fee	
Aai51177	Prob #13	
Aba37400	Probe #13	
Aak45226	Human bon	
Aak19256	Human bra	
Abs44899	Human liv	
Abs19476	Human gen	

ALIGNMENTS

```

RESULT 1
AAV63459
ID AAV63459 Standard; cDNA; 1200 BP.
XX
AAV63459;
AC
XX
XX
DT 25-MAR-2003 (revised)
DT 07-JUN-1999 (first entry)
XX
Human CD27 antigen cDNA.
XX
CD27; cell surface antigen; human; T lymphocyte; cloning; BB
XX
OS Homo sapiens.

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No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

וְעַמְדָה וְעַמְדָה

Result No.	Score	Query DB	Match Length	DB ID	Description	
					AAV633459	Aav633459 Human CD2
1	1200	100.0	1200	2	AAV81216	Aav81216 Human CD2
2	1200	100.0	1200	2	AAV81216	Aav81216 Human T-1
3	1200	100.0	1200	4	AASD3189	Ado19368 Human CD2
4	1200	100.0	1200	12	ADQ49368	Aaq21183 Human CD2
5	1200	100.0	1203	2	AAQ21183	Aaq21183 Encodes T
6	1196.8	99.7	1200	2	AAT14722	Aat14722 Human cel1
7	1196.8	99.7	1200	3	AAA0595	Aaa0595 Human cel1
8	1182.6	98.5	1204	8	ABQ0112	Abq0112 Modumet C
9	1182.6	98.5	1204	8	ACAA4893	Aca4893 Human CD2
10	1182.6	98.5	1204	10	ADP25535	Add25535 Binding C
11	1182.6	98.5	1204	10	ADL15014	Adl15014 Human T-1
12	1182.6	98.5	1204	11	AD131701	Ad131701 Human cd2
13	1182.6	98.5	1204	12	ADQ19552	Adq19552 Human sot
14	1182.6	98.5	1204	13	ADBS3768	Adbs3768 Human lym
15	1182.6	98.5	1711	12	ADG23741	Addg23741 Human bo
16	1181	98.4	1300	13	ABD32559	Abd32559 Human car
17	1181	98.4	1323	12	ADP10460	Adp10460 Reference
18	1179.4	98.3	1204	13	ADQ5319	Adq5319 Human tunc
19	1179.4	98.3	1204	13	ACPR7472	Acpr7472 Human ST
20	1179.4	98.3	1204	13	ACRF1472	Acrf1472 Human ST

PI	Amiot M, Lauffer L, Allen J, Simmons D, Aruffo A;	QY	601	GCAGCTTCCGGGACTCTCTAACCACTGGCACCCCAAAGATCCCTGTGAGTC	660
XX	WPT: 1999-069813/06.	Db	601	GCAGCTTCCGGGACTCTCTAACCACTGGCACCCCAAAGATCCCTGTGAGTC	660
DR	P-PSDB; AAW81198.	QY	661	CGATTATTGGATCCCTTGATCTCTGTTACCCCTGCTGATTTACCCCTGGCGG	720
XX	CDNA encoding human CD40 antigen - useful for cloning cDNA encoding cell surface antigens, constructing cDNA libraries, expressing vectors for expression in eukaryotic cells or their fragments.	Db	661	CGATTATTGGATCCCTTGATCTCTGCTAACCTGGCACTGGCACCTCTGTGAGTC	720
PT		QY	721	GGCCCTGTTCCCATCACAGGAAATATGATCAAACAGGAAAGCCTGCGGA	780
PT		Db	721	GGCCCTGTTCCCATCACAGGAAATATGATCAAACAGGAAAGCCTGCGGA	780
XX	Example 13 ; col 65-66 ; 79pp. English.	QY	781	GCCTGAGAGCCCTTCTGCTTCAAGTGGGAGGGGAGGAGGAGGAGGAGG	840
CC	This nucleotide sequence comprises human CD27 cDNA. The cDNA was isolated from a human T lymphocyte cDNA library using a novel method for cloning cDNAs from mammalian expression libraries. The method is based on transient expression of an antigen in eukaryotic cells and physical selection of cells expressing the antigen by adhesion to an antibody-coated substrate. The method is useful for the isolation and molecular cloning of any protein which can be expressed and transported to the cell surface membrane of a eukaryotic cell. It has been used to clone genes (see AAW81198-220) encoding cell surface antigens such as CD1a, CD1b, CD1c, CD2, CD6, CD7, CD13, CD14, CD16, CD19, CD20, CD22, CD27, CD28, CD31, CD33, CD34, CD36, CD37, CD38, CD40, CD43, CD44, CD53, ICAM, LFA-3, FcRb, TLR3, and Leub (see AAW861188-62, AAW89151-52, and AAW88451). CD40 cDNA (see AAW81198) is specific claimed. CD27, a T lymphocyte activation antigen, has been expressed in COS cells.	Db	781	GCCTGAGAGCCCTTCTGCTTCAAGTGGGAGGGAGGAGGAGGAGGAGG	900
CC		QY	841	CCAGGAGGATTACGAAAACCGAGGCTGCTCCCTGAGCAGGACCCCTGGTAG	960
CC		Db	841	CCAGGAGGATTACGAAAACCGAGGCTGCTCCCTGAGCAGGACCCCTGGTAG	960
CC		QY	901	CTGCACATAGCCCTGGCTCCACCCGAGGACCCATCAAGGAGAATGAGACC	1020
CC		Db	901	CTGCACATAGCCCTGGCTCCACCCGAGGACCCATCAAGGAGAATGAGACC	1020
CC		QY	961	TGGCAGGCCACAACCTGAGTCAGCCATCTCTGTGAGGCCCTTCTGTGAC	1080
CC		Db	961	TGGCAGGCCACAACCTGAGTCAGCCATCTCTGTGAGGCCCTTCTGTGAC	1080
XX	Sequence 1200 BP; 260 A; 373 C; 341 G; 226 T; 0 U; 0 Other;	QY	1021	GAGTGCCTTTCTGAGACTGGCAGGAGAAATGGATGAGGTGGAGACTGGAA	1080
SQ	Query Match 100.0%; Score 1200; DB 2; Length 1200;	Db	1021	GAGTGCCTTTCTGAGACTGGCAGGAGAAATGGATGAGGTGGAGACTGGAA	1080
Best Local Similarity 100.0%; Pred. No. 0;	Mismatches 0; Indels 0; Gaps 0;	QY	1081	GCAGGAGGCCAGGAGCTGGCCGGGGGACTCTGGTGTGAGGCAC	1140
Matches 1200; Conservative 0;		Db	1081	GCAGGAGGCCAGGAGCTGGCCGGGGGACTCTGGTGTGAGGCAC	1140
QY	1 GGGTGCAAAGAAAGAACAGGAGGCCCGCTGGAGGCTTAACCTGGAGGCCATT 60	QY	1141	ACTCTCTGCTGCAAGAACCCATGCTACAAGACGGGAAATAAATGACAGTGA	1200
Db	1 GGGTGCAAAGAAAGAACAGGAGGCCCGCCGGCTGGAGGCTTAACCTGGAGGCCATT 60	Db	1141	ACTCTCTGCTGCAAGAACCCATGCTACAAGACGGGAAATAAATGACAGTGA	1200
QY	61 CAGCAACTGGACAGAAAGAGGCCCTGGAGGGACCATGGCACGCCATCCTG 120				
Db	61 CAGCAACTGGACAGAAAGAGGCCCTGGAGGGACCATGGCACGCCATCCTG 120				
QY	121 GTGGCTGTGGTTCTGGGACCCCTGGGGCTCTGGACTCTGGCCCAAGAGCTG 180				
Db	121 GTGGCTGTGGTTCTGGGACCCCTGGGGCTCTGGACTCTGGCCCAAGAGCTG 180				
QY	181 CCCAGAGGGCACTACTGGCTCGGGAAAGCTGGCTGGAGGAGGAA 240				
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QY	361 TAATCTGTGGCTCTCTGCTGGGGCTCTGGGGCTCTGGGGCTCTGG 420				
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QY	421 CAATGGCTGGCAAGTGGCAAGGAAAGGTGACCCATGCTGCTGCT 480				
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QY	481 GCTGACCGCTGGCTCTCTGGGGCTGAGGCCACCCCTGAGCTTACCTTA 540				
Db	481 GCTGACCGCTGGCTCTCTGGGGCTGAGGCCACCCCTGAGCTTACCTTA 540				
QY	541 TGTCTGTGAGTGTGGCTGGGGCTGAGGCCACCCCTGAGCTTACCTTA 600				
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Location/Qualifiers
101 . 883
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/product= "CD27 antigen"
/transl_except= (pos:200. .202, aa : Arg)
101 . 160
/*tag= b
mat_peptide
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US618525-B1.

XX
DT 29-AUG-2001 (first entry)
DE Human T-lymphocyte specific antigen CD27 cDNA sequence.
XX
KW Human; T-lymphocyte specific antigen; immune-mediated disease; CD27;
KW infection; immune deficiency disorder; hypersensitivity; inflammation;
KW systemic lupus erythematosus; platelet disorder; rheumatoid arthritis;
KW transplant rejection; asthma; ss.
OS Homo sapiens.
XX
FH Key
CDS
FT FT sig_peptide
FT FT mat_peptide
XX PN XX
XX PD 17-APR-2001.
XX PF 01-DEC-1992; 92US-00983647.

XX	25-FEB-1988;	88US-00160416.						
PR	13-JUL-1989;	89US-00379076.						
PR	13-JUL-1990;	90US-00553759.						
XX	PA	GEN HOSPITAL CORP.						
XX	Seed B,	Aruffo A,	Simmons D;					
PI	WPI;	2001-289848/30.						
XX	P-PSDB;	AU02446.						
DR	New recombinant DNA encoding CD28 useful for diagnosing and treating immune-mediated diseases, infections or disorders, e.g. systemic lupus erythematosus, asthma, transplant rejection, rheumatoid arthritis.							
XX	PT							
PT	PT							
XX	PS	Example 13 : Col 61-62; 72PP; English.						
XX	CC	The present sequence encoding for human T-lymphocyte specific antigen CD27 is 1 of various human lymphocyte cell surface antigen cDNA sequences (AA03172, AA03173, AA03175, AA03195) described in the present invention. The invention relates to a novel method of cloning cDNA encoding cell surface antigens and efficient construction of cDNA libraries. Also described are 2 expression vectors (AA03171, AA03174) which provide high level expression in eukaryotic host cells. A genetically engineered cDNA sequence encoding the CD28 amino acid extracellular domain sequence (amino acids 1-134 given in AAU0437), and/or comprising nucleotides 100-759, 154-554 or 154-759 of the CD28 cDNA sequence (AA03175) is also new. The purified genes and proteins are useful for immunodiagnostic and therapeutic applications, such as in the diagnosis and treatment of immune-mediated diseases, infections or disorders in animals and humans. Such diseases include immune deficiency diseases, diseases of immediate type of hypersensitivity, asthma, hypersensitivity pneumonitis, systemic lupus erythematosus, rheumatoid arthritis, acute and chronic inflammation, platelet disorders, plasma and other cell neoplasms, parasitic diseases, Guillain-Barre syndrome and tissue and organ transplant rejection. The sequences can also be used to identify, isolate and purify other antibodies and antigens.						
SQ	Sequence 1200 BP; 260 A; 373 C; 341 G; 226 T; 0 U; 0 Other;							
Query Match	Score 1200;	DB 4;	Length 1200;					
Best Local Similarity	100.0%;	Pred No. 0;						
Matches 1200;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;				
Db	1	GGGTGCAAAAGAGACAGCAGCGCCGAAGCTGGAGGTGTAACTCGAGGCCAGCAT	60		Qy	1	GGGTGCAAAAGAGACAGCAGCGCCGAAGCTGGAGGTGTAACTCGAGGCCAGCAT	60
Db	1	GGGTGCAAAAGAGACAGCAGCGCCGAAGCTGGAGGTGTAACTCGAGGCCAGCAT	60		Db	1	GGGTGCAAAAGAGACAGCAGCGCCGAAGCTGGAGGTGTAACTCGAGGCCAGCAT	60
Qy	181	CCAGAAGGGCACTACTGGCTCGGGAAAGGCTGGTGTGAGCCAGATGTTGAGCCAGGAC	240		Db	181	CCAGAAGGGCACTACTGGCTCGGGAAAGGCTGGTGTGAGCCAGATGTTGAGCCAGGAC	240
Db	181	ATTCTCTGAAAGGACTGTGACCGATAGAAAGGCTGGTGTGAGCCAGATGTTGAGCCAGGAC	300		Qy	61	CACCAACTGGCAGAACAGGCGCTGGCAAGGGACCATGGCACGCCACATCCCTG	120
Qy	61	CACCAACTGGCAGAACAGGCGCTGGCAAGGGACCATGGCACGCCACATCCCTG	120		Db	61	CACCAACTGGCAGAACAGGCGCTGGCAAGGGACCATGGCACGCCACATCCCTG	120
Db	121	GTGGCTGTGCTGGTCTGGGAACTCTGAGCTGCACTGCACTGGCTGGTGTGAGCTG	180		Qy	121	GTGGCTGTGCTGGTCTGGGAACTCTGAGCTGCACTGCACTGGCTGGTGTGAGCTG	180
Db	121	GTGGCTGTGCTGGTCTGGGAACTCTGAGCTGCACTGGCTGGTGTGAGCTG	180		Db	121	GTGGCTGTGCTGGTCTGGGAACTCTGAGCTGCACTGGCTGGTGTGAGCTG	180
Qy	181	CCAGAAGGGCACTACTGGCTCGGGAAAGGCTGGTGTGAGCCAGATGTTGAGCCAGGAC	240		Qy	181	CCAGAAGGGCACTACTGGCTCGGGAAAGGCTGGTGTGAGCCAGATGTTGAGCCAGGAC	240
Db	181	ATTCTCTGAAAGGACTGTGACCGATAGAAAGGCTGGTGTGAGCCAGATGTTGAGCCAGGAC	300		Db	181	ATTCTCTGAAAGGACTGTGACCGATAGAAAGGCTGGTGTGAGCCAGATGTTGAGCCAGGAC	300
Qy	301	GGGGTCCTCTCTCTCTGAGGACACCACACCTGGTGTGAGCTGCTGGTGTGAGCTG	360		Qy	301	GGGGTCCTCTCTCTGAGGACACCACACCTGGTGTGAGCTGCTGGTGTGAGCTG	360
Db	301	GGGGTCCTCTCTCTGAGGACACCACACCTGGTGTGAGCTGCTGGTGTGAGCTG	360		Db	301	GGGGTCCTCTCTCTGAGGACACCACACCTGGTGTGAGCTGCTGGTGTGAGCTG	360
Qy	361	TAACCTCGTCTCTCTGAGGACACCACACCTGGTGTGAGCTGCTGGTGTGAGCTG	420		Db	361	TAACCTCGTCTCTCTGAGGACACCACACCTGGTGTGAGCTGCTGGTGTGAGCTG	420

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PN	WO201049-A.
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PD	13-JUL-1990;
XX	90US-00553759.
(GEHO) GEN HOSPITAL CORP.	
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PF	PR 13-JUL-1990;
XX	90US-00553759.
PA	PA
XX	
Seed_B	Aruffo A, Amiot M;
PI	XX
DR	WPI; 1992-056864/07.
DR	P-PSDB; AAR20814.
PS	
PT	New CD53 cell surface antigen and DNA encoding it - for immuno-therapy and diagnosis of haematopoietic neoplasms, etc.
PT	Example 13; Page 103; 160pp; English.
XX	
CC	A cDNA clone encoding CD27 was obtained from human T lymphocyte cDNA transferred into COS cells and immunoselected using the Mabs OKT18 and CLB-9F4 (see e.g. AAQ021164 for description of the rapid immunoselection cloning method). A positive vector contained a 1.2kb insert. The ability to interfere with the binding of CD27 positive T cells with antigen presenting cells, or the ability to cause such binding to occur on surfaces other than lymphocyte cells, can be useful in diagnostics and therapy. (Updated on 25-MAR-2003 to correct PA field.)
CC	Sequence 1203 BP; 261 A; 375 C; 341 G; 226 T; 0 U; 0 Other;
CC	Query Match 100.0%; Score 1200; DB 2; Length 1203;
CC	Best Local Similarity 100.0%; Pred. No. 0;
CC	Matches 1200; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CC	1 GGCGTCAAGAGAGCAGCAGCGCCAGCTGGAGTCGACTCCAGGCCAGAT 60
CC	1 GGCCTGCAAAGAGAGCAGCAGCGCCAGCTGGAGTCGACTCCAGGCCAGAT 60
CC	61 CAGCAACTGGCACAGAAGGAGCGCCAGGACCATGCAAGGCCACATCCCTG 120
CC	61 CAGCAACTGGCACAGAAGGAGCGCCAGGACCATGCAAGGCCACATCCCTG 120
CC	121 GTCGCTGTGCGTTCTGGGAACCTTGTCGCTCACTCAAGCTGGAGCTG 180
CC	121 GTCGCTGTGCGTTCTGGGAACCTTGTCGCTCACTCAAGCTGGAGCTG 180
CC	181 CCCAGAGGGCACTACTGGCTGACCGATAGAAAGGCTCTACTGTGTCAG 240
CC	181 CCCAGAGGGCACTACTGGCTGACCGATAGAAAGGCTCTACTGTGTCAG 240
CC	241 ATTCCTCGTAAGGACTGTGACCGATAGAAAGGCTCTACTGTGTCAG 300
CC	241 ATTCCTCGTAAGGACTGTGACCGATAGAAAGGCTCTACTGTGTCAG 300
DB	KW
CC	301 GGGGGTCAGCTGCAAGGAGCAGCTGGCTGGAGCTGTGGCACTG 360
CC	301 GGGGGTCAGCTGCAAGGAGCAGCTGGCTGGAGCTGTGGCACTG 360
DB	KW
CC	361 TAATCTCGTCTCTGTCAGCTGACCGATAGAAAGGCTCTACTGTGTCAG 420
CC	361 TAATCTCGTCTCTGTCAGCTGACCGATAGAAAGGCTCTACTGTGTCAG 420
DB	Cell surface antigen; cloning; immunoselection; immunotherapy; therapy; diagnosis; vector; COS; CD27; T-lymphocyte; S.
CC	XX
DB	Human CD27 antigen cDNA.
CC	XX
DB	OS Homo sapiens.
CC	XX
Qy	RESULT 6
Qy	AA114722 standard; cDNA; 1200 BP.
DB	ID AA114722
DB	DT 25-MAR-2003 (revised)
DB	DT 31-OCT-1996 (first entry)
Qy	XX
DB	DE Human CD27 antigen cDNA.
Qy	XX
DB	KW Cell surface antigen; cloning; immunoselection; immunotherapy; therapy; diagnosis; vector; COS; CD27; T-lymphocyte; S.
DB	XX
Qy	XX
DB	OS Homo sapiens.
Qy	XX
DB	Key FH
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DB	mat Peptide FT


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FT      XX
FT      PF 28-OCT-1998;
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PR      25-FEB-1988; 88US-00160416.
PR      13-JUL-1989; 89US-00137976.
PR      23-MAR-1980; 90US-00438809.
PR      13-JUL-1980; 90US-00553759.
PR      01-DEC-1992; 92US-00983647.
XX      (GEHO ) GEN HOSPITAL CORP.
PA      PA
PI      Stamenkovic I, Seed B;
XX      DR WPI; 2000-586382/55.
DR P-PSDB; AAY96137.
XX      Isolated nucleic acid molecule encoding the CD19 cell surface protein for immunodiagnosis and immunotherapy of immune-mediated infections or disorders, e.g. asthma, immune-complex diseases.
PT      Example 13; Col 67-68; 75pp; English.
XX      The present sequence is that of cDNA encoding human cell surface protein CD27 (see AA196137), a T-lymphocyte activation antigen. It was isolated from a human T-lymphocyte cDNA introduced into a cell screened using a novel method of invention. The method isolates CSA nucleic acids, based upon transient expression of eukaryotic cells and physical selection of cells expressing adhesion to (panning on) an antibody-coated substrate in a culture dish. CSA nucleic acids isolated by the method can and the proteins they encode, are useful for immunodiagnostic and immunotherapeutic applications, including the diagnosis of immune-mediated infections, diseases, and disorders in a humans. These disorders include asthma, immune-complex diseases, parasitic diseases or multiple sclerosis. They interfere with the binding of CD27 positive T cells with presenting cells, or the ability to cause such binding to surfaces other than lymphocyte cells, can be useful in cancer therapy. A soluble CD27 fusion protein will be useful to undirected T cell proliferation in certain autoimmune diseases.
XX      Sequence 1200 BP; 260 A; 371 C; 343 G; 226 T; 0 U; 0 Other
SQ      Query Match 99.7%; Score 1196.8; DB 3; Length 1
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1198; Conservative 0; Mismatches 2; Indels 0
Db      1 GGGGCTCAAAGAAGGACAGCAGGCCGCGCTTGGGGCTGAACCTG
Db      1 GGGGCTCAAAGAAGGACAGCAGGCCGCGCTTGGGGCTGAACCTG
Qy      61 CAGCAACTGGGCACTGAAAGGAGCCCTGGGAGGGACCATGGCAC
Db      61 CAGCAACTGGGCACTGAAAGGAGCCCTGGGAGGGACCATGGCAC
Qy      121 GTGGCTGTGCTTGTGGGACCTCTGGGGCTCTCACTTCACAC
Db      121 GTGGCTGTGCTTGTGGGACCTCTGGGGCTCTCACTTCACAC
Qy      181 CCCAGGAGGGCACTTGCTGCTGAGGAAAGGCTGCTGCCAGATGT
Db      181 CCCAGGAGGGCACTTGCTGCTGAGGAAAGGCTGCTGCCAGATGT

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	RESULT 8	
Qy	241 ATTCCCTGTTGAGGACATGTGACCATGATGAAAGGTGCTCAGTGTGATCCTTGCAATACC	300
Db	241 ATTCCCTGTTGAGGACATGTGACCATGATGAAAGGTGCTCAGTGTGATCCTTGCAATACC	300
Qy	301 GGGGTTCCTCTCTCTGTTGACCCACATACCCGCCCACTGTAGAGCTGTCGCACACTG	360
Db	301 GGGGTTCCTCTCTGTTGACCCACATACCCGCCCACTGTAGAGCTGTCGCACACTG	360
Qy	361 TAACTCGGTCTCTGTGTAACGTGACCATGACCAATCTGCAATGTCAGTGTGCTGCG	420
Db	361 TAACTCGGTCTCTGTGTAACGTGACCATGACCAATCTGCAATGTCAGTGTGCTGCG	420
Qy	421 CAATGGCTGGCACTGTGACCATGACCAATCTGCAATGTCAGTGTGCTGCG	480
Db	421 CAATGGCTGGCACTGTGACCATGACCAATCTGCAATGTCAGTGTGCTGCG	480
Qy	481 GCTGACCCCTGCTGACCCATGACCCACAGCCACCTGACCCACACTTAACTTAA	540
Db	481 GCTGACCCCTGCTGACCCATGACCCACACTTAACTTAA	540
Qy	541 TGTAGTGTGAGATGCTGAGGCCAGCTCTCTAACCTGCTAACCTGCTAACCTGCTAAC	600
Db	541 TGTAGTGTGAGATGCTGAGGCCAGCTCTCTAACCTGCTAACCTGCTAACCTGCTAAC	600
Qy	601 GCAGCTGCTGCCGGAACTCTCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAAC	660
Db	601 GCAGCTGCTGCCGGAACTCTCTAACCTGCTAACCTGCTAACCTGCTAACCTGCTAAC	660
Qy	661 CGATTTTATTGCAATCTTGTGATCTCTCTCTGGAATGTTTCACCCCTGGCCGG	720
Db	661 CGATTTTATTGCAATCTTGTGATCTCTCTCTGGAATGTTTCACCCCTGGCCGG	720
Qy	721 GGCCTCTGTTCCCTCATCAAGGAAATTATAGTCAACAAAGGAAAGTCTCTGTGGA	780
Db	721 GGCCTCTGTTCCCTCATCAAGGAAATTATAGTCAACAAAGGAAAGTCTCTGTGGA	780
Qy	781 GCTTGCAAGGCCTTGTCTTACAGTGTGCCCAGGGAGGAGCACCATCCCAT	840
Db	781 GCTTGCAAGGCCTTGTCTTACAGTGTGCCCAGGGAGGAGCACCATCCCAT	840
Qy	841 CGGGGAGATTACGGAAACACGGAGCTGCCCTGTGCAAGCACCTGGGTAG	900
Db	841 CGGGGAGATTACGGAAACACGGAGCTGCCCTGTGCAAGCACCTGGGTAG	900
Qy	901 CTGGCACTACAGCCTGGCTCCACCCCCACCCCGCGACCATCCAAAGGGAGACTGAGCC	960
Db	901 CTGGCACTACAGCCTGGCTCCACCCCCACCCCGCGACCATCCAAAGGGAGACTGAGCC	960
Qy	961 TGGAGGCCACAACCTGAGTCCTCATGTCAGGGCCCTTGTCAAGGGCCTTCTGTGATACCTGACA	1020
Db	961 TGGAGGCCACAACCTGAGTCCTCATGTCAGGGCCCTTCTGTGATACCTGACA	1020
Qy	1021 GACTGCCTTTTCAGAATGGCAAGGGACAGGAAATAATGGATAGGATAGGAGTGGAA	1080
Db	1021 GACTGCCTTTTCAGAATGGCAAGGGACAGGAAATAATGGATAGGATAGGAGTGGAA	1080
Qy	1081 GCAAGGACGCCAGGCGCTGGCGCGCTGGGGCTCTGGCTTGTAAAGCTGAC	1140
Db	1081 GCAAGGACGCCAGGCGCTGGCGCGCTGGGGCTCTGGCTTGTAAAGCTGAC	1140
Qy	1141 ACTTCCCTGCTGCCAAAGCCCATGTGCTACAAAGGGCAAATAAAGTCAACAGTGACC	1200
Db	1141 ACTTCCCTGCTGCCAAAGCCCATGTGCTACAAAGGGCAAATAAAGTCAACAGTGACC	1200

RESULT 9			
ACAA64893	standard; DNA; 1204 BP.		
ID	ACAA64893		
XX			
AC	ACAA64893;		
XX			
DT	27-JUN-2003 (first entry)		
DB	Human CD27 DNA corresponding to M63928.		
XX			
KW	Human; chronic inflammatory joint disease; infection; tumour; antiinflammatory; cytostatic; antiarthritis; antirheumatic; immunosuppressive; gene therapy; etiological pathogenicity; ds.		
XX			
OS	Homo sapiens.		
XX			
PN	DE10127572-A1.		
XX			
PD	05-DEC-2002.		
XX			
PF	30-MAY-2001; 2001DE-01027572.		
XX			
PR	30-MAY-2001; 2001DE-01027572.		
XX			
PA	(PATH-) PATHOARRAY GMEH.		
XX			
PI	Haeupl T, Ungethüm U, Blaess S;		
XX			
DR	WPI; 2003-240797/24.		
XX			
PS	Claim 1; Page: 12pp; German.		
CC	This invention describes a novel reagent for diagnosis, molecular definition and therapy of chronic inflammatory joint diseases, and other inflammatory disorders, infective or tumour diseases in humans. The products of the invention have antiinflammatory, antiarthritis, antirheumatic and immunosuppressive activity, and can be used for gene therapy. The reagent of the invention and any proteins and antibodies derived from it, are used (i) for analysing tissue and blood samples for medical diagnosis; (ii) for diagnosis and characterisation of chronic joint diseases, on the basis of molecular characterisation, and determining the etiological pathogenicity principle of as yet uncharacterised inflammatory diseases, also monitoring progression and/or treatment of disease, and optimisation of therapy; and (iii) for developing treatments for inflammatory diseases, particularly of joints, infections and tumours. AC64801-AC64965 represent human polynucleotides used in the method of the invention.		
XX			
Sequence 1204 BP; 263 A; 376 C; 338 G; 227 T; 0 U; 0 Other;			
Qy	Query Match 98.5%; Score 1182.6; DB 8; Length 1204;		
Best Local Similarity 99.6%; Conservative 0; Mismatches 4; Indels 1; Gaps 1;			
Matches 1196;			
Db	1 GCGCTGCAAGAAGAAGCAGGGCCCAAGCTTGTGTTACTCCAGGGCAGAT 60		
Db	1 GGGGTGCAAAAGAAGAAGACAGAGGCCCAAGCTGGAGGTAACTCCAGGGCAGAT 60		
Qy	61 CAGCAAATGGCAAGAAGAAGCAGGCCCTGGCAAGGACCATGCGCICAATCCCCG 120		
Db	61 CAGCAACTGGCAAGAAGAAGCAGGCCCTGGCAAGGACCATGCGCICAATCCCCG 120		
Qy	61 GAGCTGCTGCAAGAAGCAGGCCCTGGCAAGGACCATGCGCICAATCCCCG 120		
Db	61 GAGCTGCTGCAAGAAGCAGGCCCTGGCAAGGACCATGCGCICAATCCCCG 120		
Qy	181 CCCAGAGGCACTACTGGCTAGGGAAAAGCTGGCAAGATGGTGGCAAGGAC 240		
Db	181 CCCAGAGGCACTACTGGCTAGGGAAAAGCTGGCAAGATGGTGGCAAGGAC 240		
Qy	241 ATTCCCTGTCAGGACTCTGGTCAGGATAGAAGGGCTCATGTCAGTGATCCCTGCAATACC 300		
Db	241 ATTCCCTGTCAGGACTCTGGTCAGGATAGAAGGGCTCATGTCAGTGATCCCTGCAATACC 300		
Qy	301 GGGGTCTCCCTCTCTGACCAACACCGGCCCAACTGTGAAGCTGTGGCACTG 360		
Db	301 GGGGTCTCCCTCTGACCAACACCGGCCCAACTGTGAAGCTGTGGCACTG 360		
Qy	361 TAACCTGGTCTTCCTGGCAACTCTGGCAACTCATGCCAACCTGAGACTCTGGTCTCG 420		
Db	361 TAACCTGGTCTTCCTGGCAACTCATGCCAACCTGAGACTCTGGTCTCG 420		
Qy	421 CAATGGCTGGCAAGTGGAGGCAAGGAGTGCACCGAGCTGGTCTCTCCAAACCCCTTC 480		
Db	421 CAATGGCTGGCAAGTGGAGTGCACCGAGCTGGTCTCTCCAAACCCCTTC 480		
Qy	481 GCTGACCGCTGGCTCTCAGGCCAACCTGAGCTGGCAACTCATGCCAACCTGAGCTTCA 540		
Db	481 GCTGACCGCTGGCTCTCAGGCCAACCTGAGCTGGCAACTCATGCCAACCTGAGCTTCA 540		
Qy	541 TGTCAGTGAGATGTCGGCAAGGACAGCTGGCACACTGGTCTGGTCTGGTCTCG 600		
Db	541 TGTCAGTGAGATGTCGGCAAGGACAGCTGGCACACTGGTCTGGTCTGGTCTCG 600		
Qy	601 GCAGCTGCTTCCCCTGGCACTCTTACCCACTGGCACCCAAAGATCCCTGGAGCTTCAG 660		
Db	601 GCAGCTGCTTCCCCTGGCACTCTTACCCACTGGCACCCAAAGATCCCTGGAGCTTCAG 660		
Qy	661 CGATTTTATGGCATCTGGTCTGGTCTCTCTGGAAATGGTCCCTGTTTACCCCTGGCGG 720		
Db	661 CGATTTTATGGCATCTGGTCTCTCTGGAAATGGTCCCTGTTTACCCCTGGCGG 720		
Qy	721 GGCCCTGTTCTCCATCAACGAGAAATAAGATAACACAAAGGAAAGTCTGTGCGA 780		
Db	721 GGCCCTGTTCTCCATCAACGAGAAATAAGATAACACAAAGGAAAGTCTGTGCGA 780		
Qy	781 GCCTGAGAGCTTGTGTTACGCTGCCCTGGCTCATCCCTAGCCAGCACATCCCCAT 840		
Db	781 GCCTGAGAGCTTGTGTTACGCTGCCCTGGCTCATCCCTAGCCAGCACATCCCCAT 840		
Qy	841 CCAGGGGATTACCGAAACCGGGCTGCCCTGGCTCATCCCTAGCCAGCACCTGGTAG 900		
Db	841 CCAGGGGATTACCGAAACCGGGCTGCCCTGGCTCATCCCTAGCCAGCACCTGGTAG 900		
Qy	901 CTGCACTACAGCCCTGGCTCCACCCCCACCCGCAACATCCAAAGGGAGACTGGAGCC 960		
Db	901 CTGCACTACAGCCCTGGCTCCACCCCCACCCGCAACATCCAAAGGGAGACTGGAGCC 960		
Qy	961 TGGCACCCACACTGGAGTCCCATCTCTGGCCCTTCTGTGAGCTGAGATGAGCC 1020		
Db	961 TGGCACCCACACTGGAGTCCCATCTCTGGCCCTTCTGTGAGCTGAGATGAGCC 1020		
Qy	1021 GAGTGGCTTTCAGAGACTGGAGGCAATAATGGTGGAGCTGGGAGCTGGGAA 1080		
Db	1021 GAGTGGCTTTCAGAGACTGGAGGCAATAATGGTGGAGCTGGGAGCTGGGAA 1080		
Qy	1081 GCAGGGCCAGCCACCTGGCGGGCTCTGGCTGGCTGAGCTGGAGGAAATAGTGCAGATGAC 1139		
Db	1081 GCAGGGCCAGCCACCTGGCGGGCTCTGGCTGGCTGAGCTGGAGGAAATAGTGCAGATGAC 1140		
Qy	1140 CACTTCCTGCTGCAAGGCAACTGCTACAGACGGCAAAATAAGTGCAGATGAC 1199		
Db	1141 CACTTCCTGCTGCAAGGCAACTGCTACAGACGGCAAAATAAGTGCAGATGAC 1200		
Qy	1200 C 1200		
Db	1201 C 1201		

RESULT 10

ADD25535

